C-Tick Test Report

Issued Date : Feb. 25, 2010
Report No. : 1001C020
Equipment : Guitar Amplifier
Model Name : D100;D100C
Applicant : Armadillo Enterprises Inc.
Address : 4924 W, Waters Ave., Tampa, FL 33634, USA.
Manufacturer : EMINENCE DONGGUAN ENTERPRISE CO.,LTD
Address : DI-YONG,GAOBU TOWN,DONGGUAN CITY,GUANGDONG,P.R.CHINA.

Tested by:
Neutron Engineering Inc. EMC Laboratory
Date of Test:
Jan. 27, 2010 ~ Feb. 24, 2010

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ilac-MRA TAF Testing Laboratory 0659

VCCI R-2669 R-2829 C-2916

Declaration

Neutron represents to the client that testing is done in accordance with standar d procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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1. CERTIFICATION

Equipment: Guitar Amplifier
Trade Name: DIME
Model No.: D100;D100C
Applicant: Armadillo Enterprises Inc.
Factory: EMINENCE DONGGUAN ENTERPRISE CO.,LTD
Address: DI-YONG,GAOBU TOWN,DONGGUAN CITY,GUANGDONG,P.R.CHINA.
Date of Test: Jan. 27, 2010 ~ Feb. 24, 2010
Test Item: ENGINEERING SAMPLE
Standards: AS/NZS CISPR 13:2004/ CISPR 13:2001+A1: 2003+A2: 2006

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-SMA-1-1001C020) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NEMKO,TUV Rheinland and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
AS/NZS CISPR 13:2004	Mains Terminal Disturbance Voltage Test	------	PASS	
	Radiated Disturbance Test	------	PASS	
	Disturbance Voltage at the Antenna Terminals Test	------	N/A	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **SR01/SR03**at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

A. Mains Terminal Disturbance Voltage Test : 2.44 dB

B. Radiated Disturbance Test :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U，(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.65	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	H	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	H	2.66	
SR01		30MHz ~ 300MHz		2.64	
SR03				2.85	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Guitar Amplifier
Trade Name	DIME
Model No.	D100;D100C
OEM Brand/Model No.	N/A
Model Difference	Model difference is distinguish different sales area, the rest are the same.
Product Description	The EUT is a Guitar Amplifier. More details of EUT technical specification, please refer to the User's Manual.
Power Supply	AC mains.
Power Rating	I/P AC 100-240V, 50-60Hz
Connecting I/O Port(s)	Please refer to the User's Manual
Products Covered	N/A
EUT Modification(s)	N/A

Note:

1. For a more detailed features description, please refer to the manufacturer’s specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

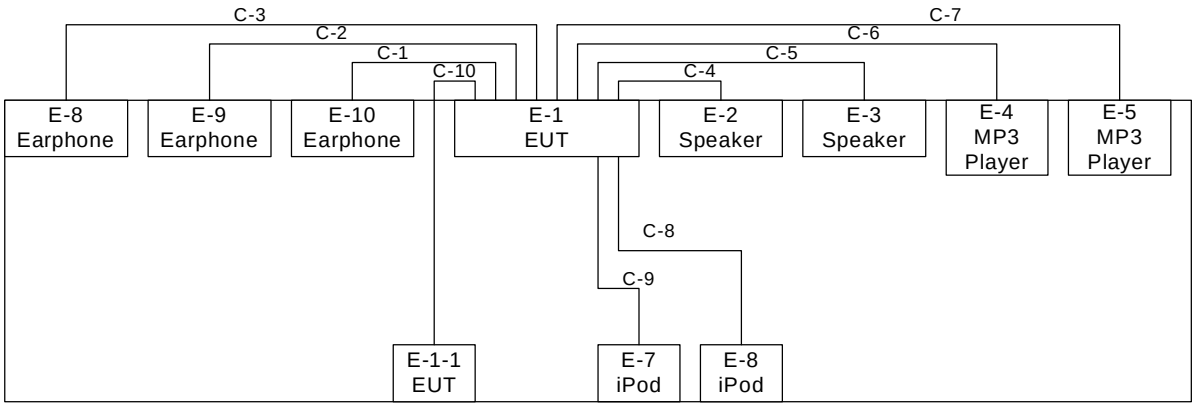
To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	LOW LEVEL IN
Mode 2	HIGH LEVEL IN

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Mains Terminal Disturbance Voltage & Radiated Disturbance Test	
Final Test Mode	Description
Mode 1	LOW LEVEL IN

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1: Audio Cable
C-2: Audio Cable
C-3: Audio Cable
C-4: Audio Cable
C-5: Audio Cable
C-6: Audio Cable
C-7: Audio Cable
C-8: Audio Cable
C-9: Audio Cable
C-10: Singal Cable

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Guitar Amplifier	DIME	D100	DOC	N/A	EUT
E-2	Speaker	Philips	N/A	N/A	N/A	
E-3	Speaker	Philips	N/A	N/A	N/A	
E-4	MP3 Player	DELL	DJ512M	N/A	5TMY781	
E-5	MP3 Player	DELL	DJ512M	N/A	5TMY789	
E-6	iPod nano (2G)	Apple	A1199	DOC	YM7214GEVQ5	
E-7	iPod nano(8G)	Apple	A1285	DOC	YM850DPM2ME	
E-8	Earphone	Apple	N/A	DOC	N/A	
E-9	Earphone	Dell	N/A	DOC	N/A	
E-10	Earphone	Dell	N/A	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5m	
C-2	YES	NO	1.5m	
C-3	YES	NO	1.5m	
C-4	NO	NO	1.8m	
C-5	NO	NO	1.8m	
C-6	YES	NO	1.8m	
C-7	YES	NO	1.8m	
C-8	YES	NO	1.8m	
C-9	YES	NO	1.8m	
C-10	NO	NO	3.6m	

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

4. EMC EMISSION TEST

4.1 MAINS TERMINAL DISTURBANCE VOLTAGE MEASUREMENT

4.1.1 LIMITS OF DISTURBANCE VOLTAGE AT THE MAINS TERMINALS

Equipment type	Frequency Range MHz	Limit values (dB(μV))	
		Quasi-peak	Average
Television and sound receivers and associated equipment	0.15 - 0.5	66-56 [a]	56-46 [a]
	0.5 - 5	56	46
	5 - 30	65	50
[a] Decreasing linearly with the logarithm of the frequency.			

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Jun.01.2010
2	LISN	Rolf Heine	NNB-2-16Z	99044	Jun.01.2010
3	50Ω Terminator	SHX	TF2-3G-A	08122901	Jun.01.2010
4	Transient Limiter	Agilent	11947A	3107A03668	Jun.01.2010
5	Test Cable	N/A	C-06_C03	N/A	Nov.16.2010
6	Test Receiver	R&S	ESCI	100382	Jun.02.2010

Remark: ” N/A” denotes No Model No. , Serial No. or No Calibration specified.

4.1.3 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –Block Diagram of system tested (please refer to 3.3).

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

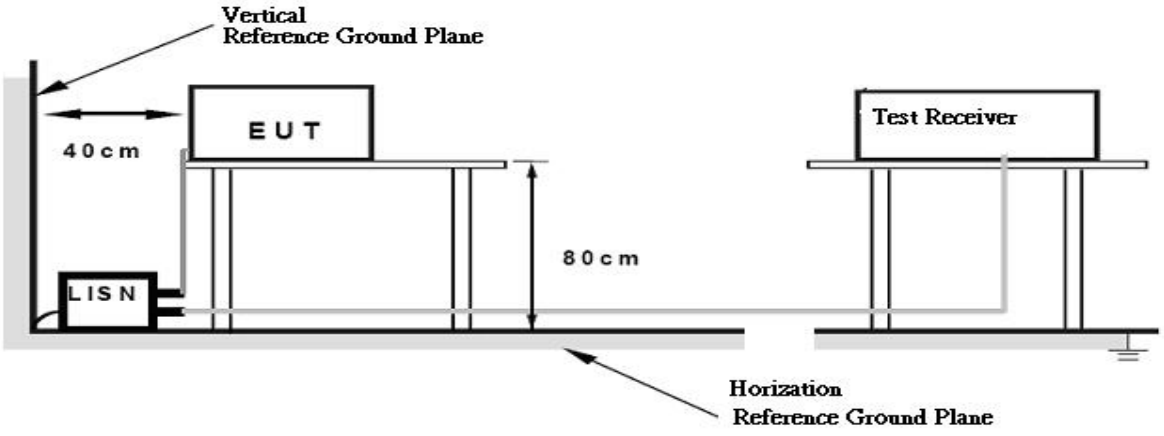
4.1.5 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The sequence used is:

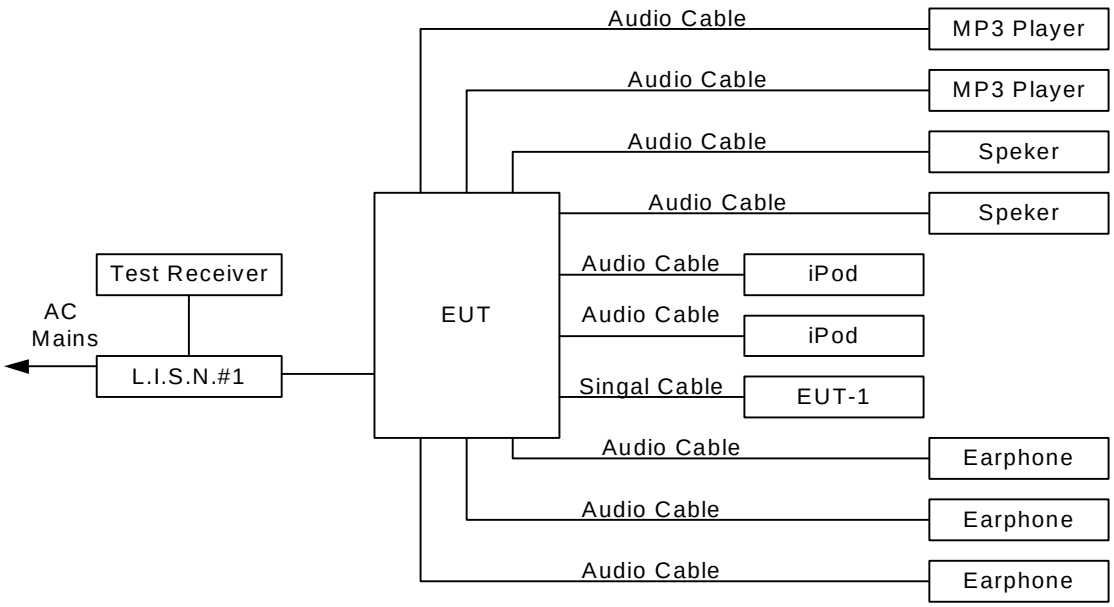
1. IPOD Send Voice to EUT.

As the keyboard is strictly input device, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

4.1.6 TEST SETUP



4.1.7 BLOCK DIAGRAM OF TEST SETUP



4.1.8 TEST RESULTS

E.U.T :	Guitar Amplifier	Model Name :	D100
Temperature :	23° C	Relative Humidity :	44%
Pressure :	1004 hPa	Test Voltage :	AC 240V/50Hz
Test Mode :	LOW LEVEL IN		

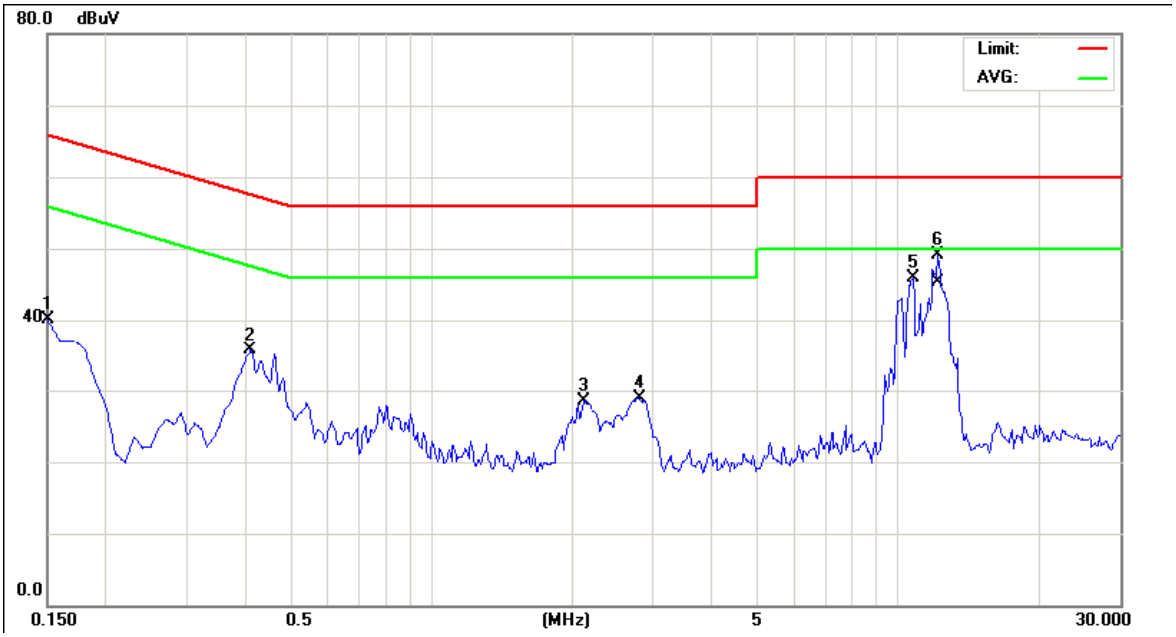
Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	
0.15	Line	40.10	*	66.00	56.00	-25.90	(QP)
0.41	Line	35.72	*	57.65	47.65	-21.93	(QP)
2.12	Line	28.54	*	56.00	46.00	-27.46	(QP)
2.80	Line	28.96	*	56.00	46.00	-27.04	(QP)
10.79	Line	46.00	*	60.00	50.00	-14.00	(QP)
12.20	Line	49.05	45.29	60.00	50.00	-4.71	(AV)

Remark:

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz。Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.3 sec./MHz。

(2) All readings are QP Mode value unless otherwise stated AVG in column of「Note」. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(3) Measuring frequency range from 150KHz to 30MHz。



E.U.T :	Guitar Amplifier	Model Name :	D100
Temperature :	23° C	Relative Humidity :	44%
Pressure :	1004 hPa	Test Voltage :	AC 240V/50Hz
Test Mode :	LOW LEVEL IN		

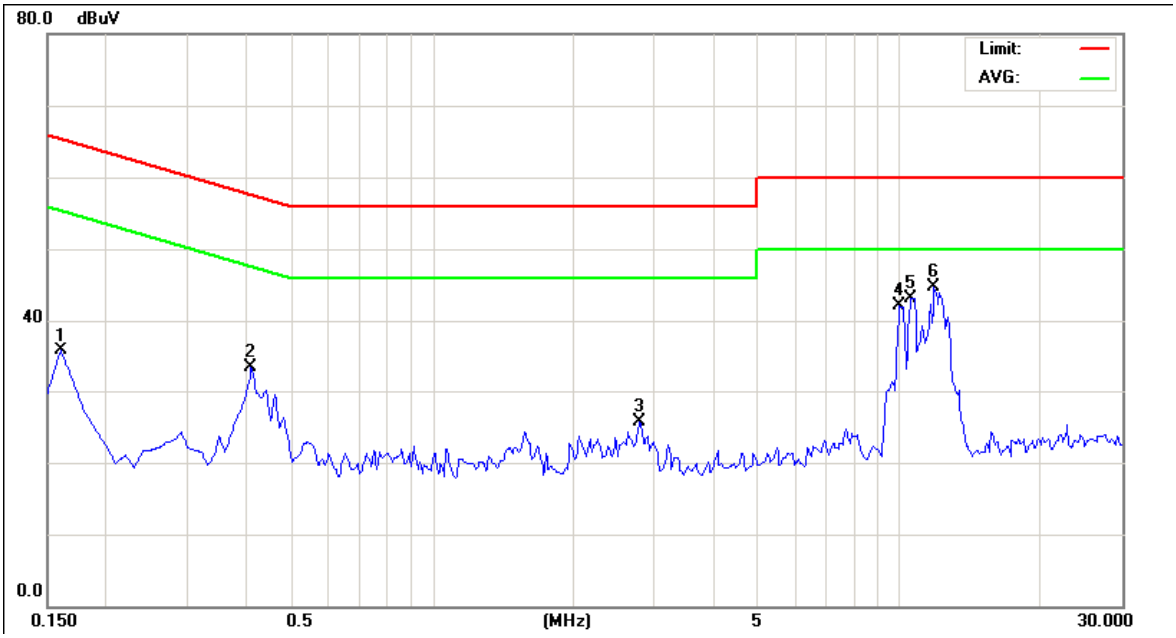
Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	
0.16	Neutral	35.72	*	65.46	55.46	-29.74	(QP)
0.41	Neutral	33.26	*	57.65	47.65	-24.39	(QP)
2.78	Neutral	25.61	*	56.00	46.00	-30.39	(QP)
10.06	Neutral	42.01	*	60.00	50.00	-17.99	(QP)
10.61	Neutral	43.08	*	60.00	50.00	-16.92	(QP)
11.89	Neutral	44.79	*	60.00	50.00	-15.21	(QP)

Remark:

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz。Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.3 sec./MHz。

(2) All readings are QP Mode value unless otherwise stated AVG in column of「Note」. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(3) Measuring frequency range from 150KHz to 30MHz。



4.2 RADIATED DISTURBANCE MEASUREMENT

4.2.1 LIMITS OF RADIATED DISTURBANCE MEASUREMENT (at 3 m distance)

Equipment type	Source	Frequency MHz	Limit values(dB(μV/m)) Quasi-peak	
Television receivers, video recorders and PC tuner cards	Local oscillator	≤1000	Fundamental	57[a]
		30 to 300	Harmonics	52
		300 to 1000	Harmonics	56
	Other	30 to 230		40
		230 to 1000		47
Television and sound receivers for broadcast satellite transmissions (except outdoor units). Infrared remote control units and Infrared headphone systems	Other	30 to 230		40
		230 to 1000		47
Frequency modulation sound receiver and PC tuner cards	Local oscillator	≤1000	Fundamental	65
		30 to 300	Harmonics	52
		300 to 1000	Harmonics	56
	Other	30 to 230		40
		230 to 1000		47

[a] In Japan: 57 dB(μ V/m) is relaxed to 66 dB(μ V/m) for operating channels <300 MHz and to 70 dB(μ V/m) for operating channels >300 MHz.

Notes:

(1) For car radio receivers and for LW, MW and SW AM broadcast receivers no radiation limits apply.

LIMITS OF RADIATED POWER OF TUNER UNITS OF DIRECT TO HOME SATELLITE RECEINERS

Equipment type	Source	Frequency MHz	Limit values dB(pW)	
Television and sound receivers for broadcast satellite transmissions: tuner units	Local oscillator	1 to 3	Fundamental	57
		1 to 3	Harmonics	57

LIMITS OF RADIATED POWER OF OUTDOOR UNITS OF DIRECT TO HOME STELLITE RECEIVERS

Equipment type	Source	Frequency GHz	Limit values dB(pW)
Outdoor units of direct to home satellite receivers	Local oscillator leakage radiated from the antenna within ±7° of the main beam axis [a]	0.9 to 18	Fundamental 30
	Equivalent radiated power from outdoor unit including the local oscillator leakage [b]	1 to 2.5 2.5 to 18	43 57

[a] The direct measurement is carried out according to 5.9. When the reflector of the parabolic antenna cannot be removed, the indirect measurement according to 5.8 is carried out. In that case, the antenna gain shall be taken into account.

[b] Measurement of the equivalent radiated power shall be in accordance with 5.8. No requirements within ±7° off the main beam axis of the antenna.

4.2.2 LIMITS OF DISTURBANCE POWER

Equipment type	Frequency MHz	Limit values dB(μV) 75Ω	
		Quasi-peak	Average
Associated equipment (video recorders excluded)	30 to 300	45 to 55 [a]	35 to 45 [a]

[a] Increasing linearly with the frequency.

Notes:

(1). If the limits for the average detector are met when using the quasi-peak detector, the limits for the measurements with average detector are considered to be met.

4.2.3 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Absorbing Clamp	R&S	MDS-21	841077/011	Aug.18.2010
2	Test Cable	N/A	C-04_Clamp	N/A	Jul.09.2010
3	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Jun.02.2010
4	Spectrum	ADVANTEST	R3162	81700032	Jun.01.2010

Remark: ” N/A” denotes No Model No. / Serial No. and No Calibration specified.

4.2.4 TEST PROCEDURE

a. The measurements were performed using a Receiver which has CISPR 16, Part 1, Clause 2 Quasi-Peak detectors, and Clause 4 Average detectors in addition to an absorbing clamp in accordance with Clause 13 of CISPR 16, Part 1 were used to carry out the testing. The appliance to be tested was placed on a non-metallic table at least 0.4 m from other metallic objects and the power cord to be measured on was stretched in a straight line for a distance of 6 meters to accommodate the absorbing clamp, and permit the necessary measuring adjustment of position for tuning. The clamp was placed around the lead so as to measure a quantity proportional to the disturbance power on the lead.
b. The absorbing clamp is positioned for maximum indication at each test frequency. The clamp was moved along power cord until the maximum value is found between a position adjacent to the appliance and a distance of about a half-wavelength from it.
c. The original power cord of the appliance is shorter than 6 meter length, approximum 1.3 m, it was extended by a similar cord to compliance with the necessary length.
d. The disturbance power limit apply throughout the frequency range 30 MHz to 300 MHz and therefore the disturbance characteristics were assessed throughout this frequency range.

Note:

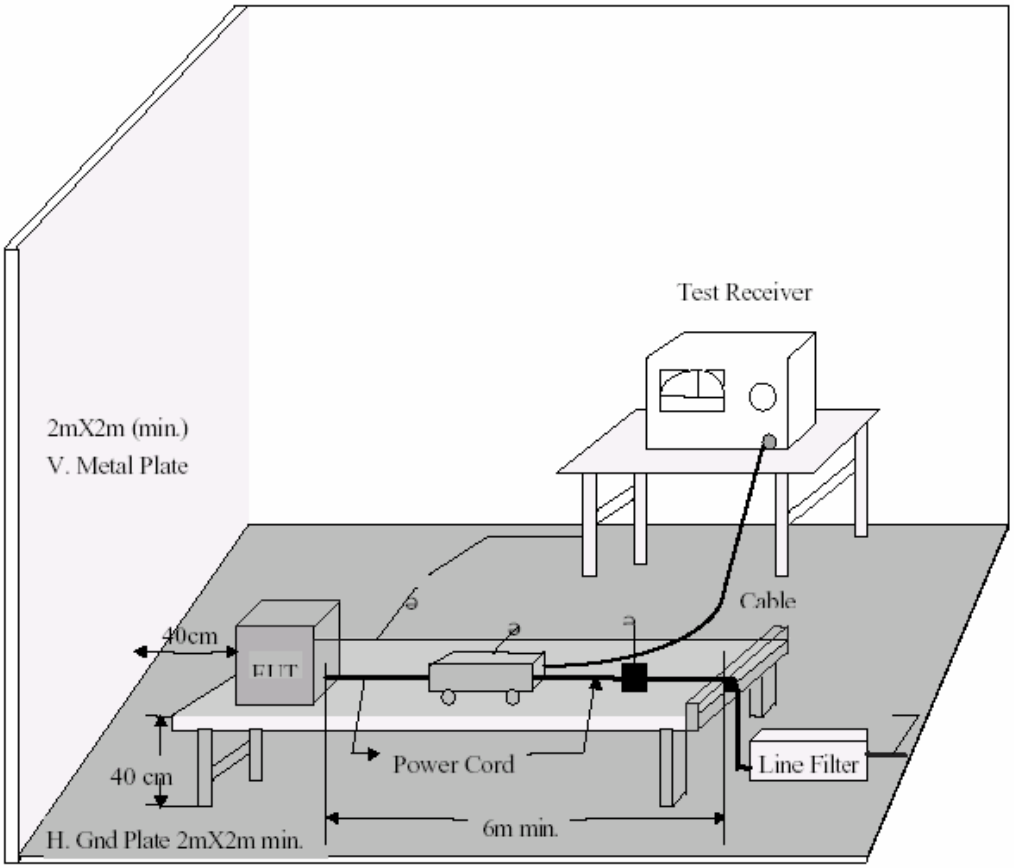
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

4.2.5 DEVIATION FROM TEST STANDARD

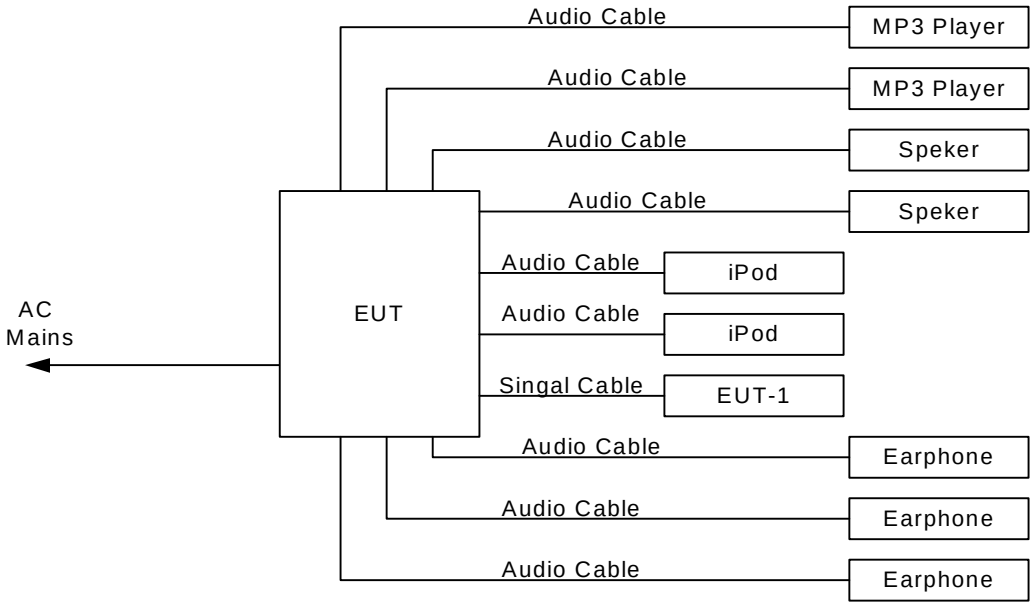
No deviation

4.2.6 TEST SETUP (CLAMP)

FIG. A-2 Test Set-Up for Disturbance Power



4.2.7 BLOCK DIAGRAM OF SETUP (CLAMP)



4.2.8 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.9 TEST RESULTS

EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	23℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	AC POWER CABLE		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
33.38	39.15	23.70	2.60	41.75	26.30	45.13	35.13	- 3.38	
44.18	30.73	0.00	- 0.20	30.53	-0.20	45.52	35.52	-14.99	
69.15	26.95	0.00	1.22	28.17	1.22	46.45	36.45	-18.28	
75.90	31.27	0.00	1.36	32.63	1.36	46.70	36.70	-14.07	
81.30	30.36	0.00	0.57	30.93	0.57	46.90	36.90	-15.97	
100.88	25.36	0.00	0.74	26.10	0.74	47.63	37.63	-21.53	

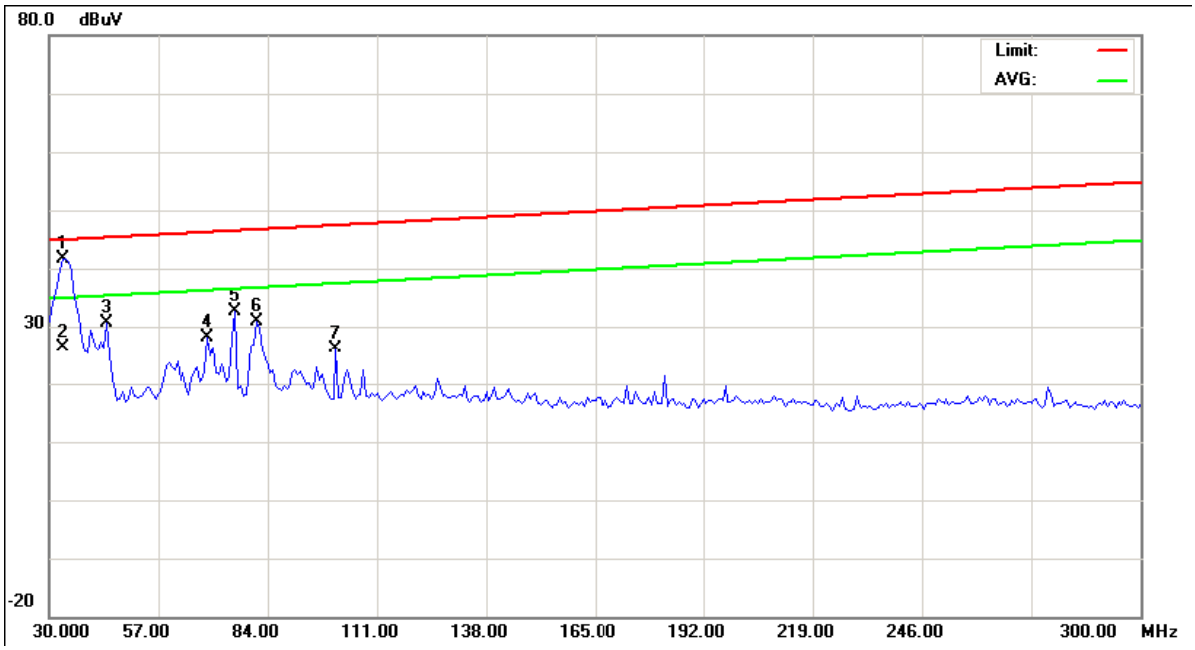
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	23℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	RETURN POWER CABLE(LOOP1)		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
35.40	24.73	0.00	3.27	28.00	3.27	45.20	35.20	-17.20	
75.90	32.08	0.00	1.36	33.44	1.36	46.70	36.70	-13.26	
81.98	27.58	0.00	0.54	28.12	0.54	46.93	36.93	-18.81	
92.78	26.01	0.00	0.35	26.36	0.35	47.33	37.33	-20.97	
100.88	26.42	0.00	0.74	27.16	0.74	47.63	37.63	-20.47	
126.53	23.80	0.00	1.53	25.33	1.53	48.58	38.58	-23.25	

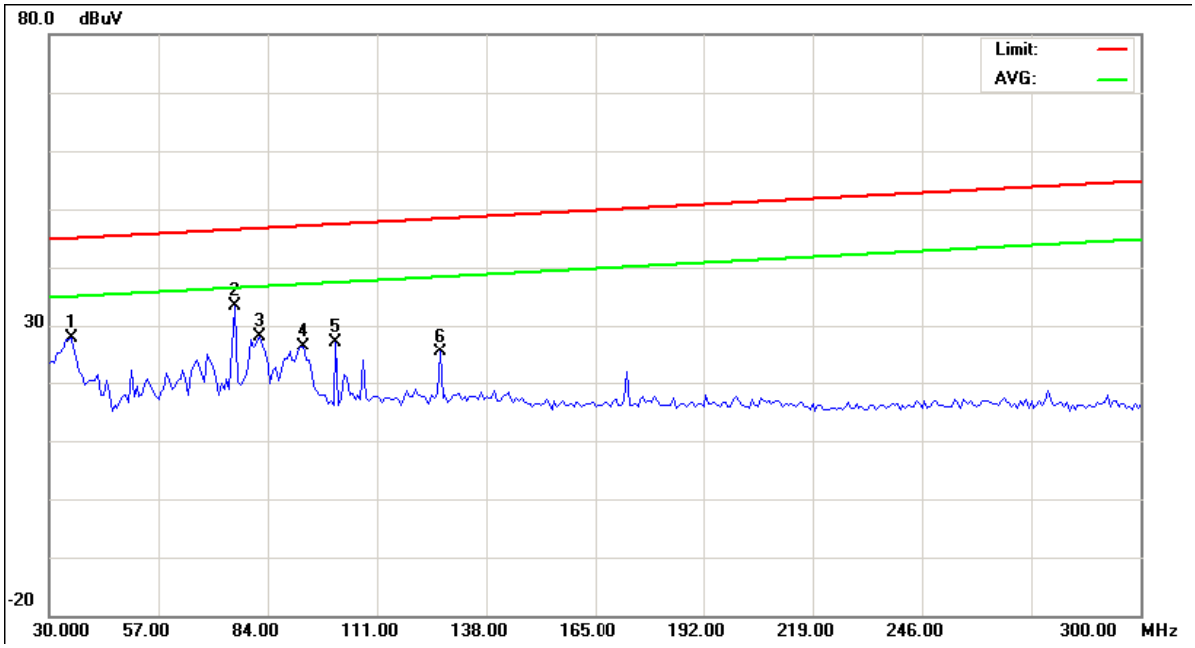
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	23℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	RETURN POWER CABLE(LOOP2)		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
35.40	25.39	0.00	3.27	28.66	3.27	45.20	35.20	-16.54	
59.70	25.89	0.00	1.09	26.98	1.09	46.70	36.70	-19.72	
75.90	28.72	0.00	1.36	30.08	1.36	46.70	36.70	-16.62	
81.98	26.81	0.00	0.54	27.35	0.54	46.93	36.93	-19.58	
90.08	24.08	0.00	0.33	24.41	0.33	47.23	37.23	-22.82	
100.88	26.39	0.00	0.74	27.13	0.74	47.63	37.63	-20.50	

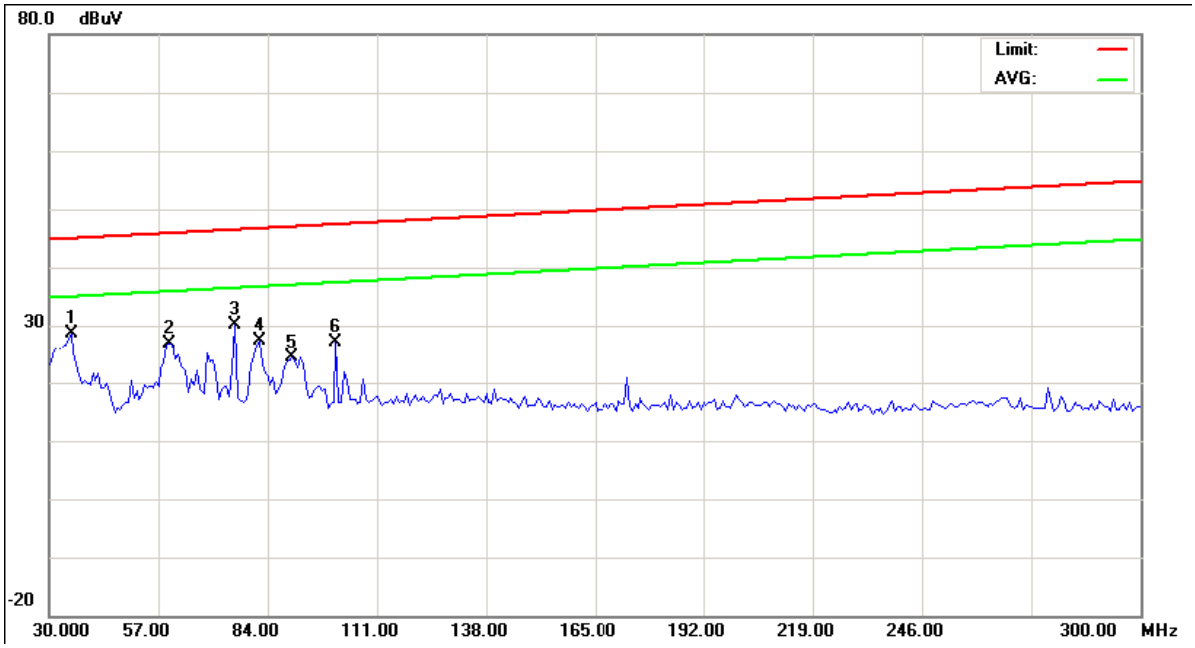
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	23℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	SEND POWER CABLE(LOOP1)		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
35.40	24.71	0.00	3.27	27.98	3.27	45.20	35.20	-17.22	
63.08	26.26	0.00	0.08	26.34	0.08	46.23	36.23	-19.89	
75.90	32.24	0.00	1.36	33.60	1.36	46.70	36.70	-13.10	
79.95	25.90	0.00	0.65	26.55	0.65	46.85	36.85	-20.30	
92.10	24.07	0.00	0.34	24.41	0.34	47.30	37.30	-22.89	
0.88	26.64	0.00	0.74	27.38	0.74	47.63	37.63	-20.25	

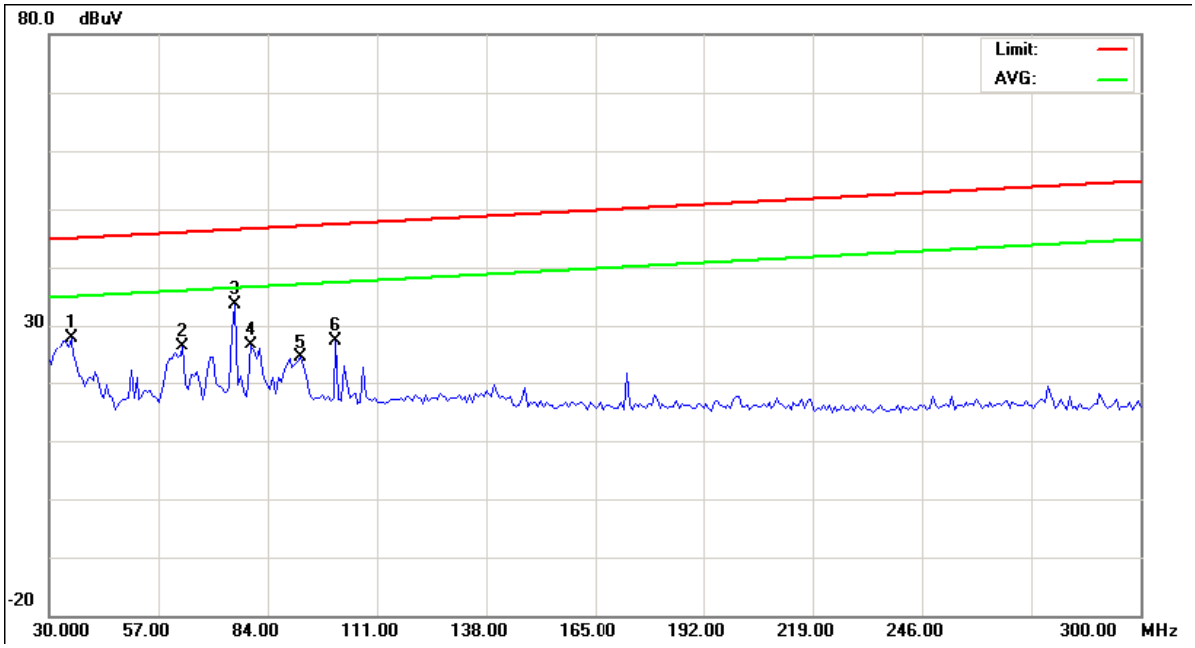
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	23℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	SEND POWER CABLE(LOOP2)		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
34.73	25.48	0.00	3.13	28.61	3.13	45.18	35.18	-16.57	
60.38	26.30	0.00	0.93	27.23	0.93	46.13	36.13	-18.90	
75.90	28.93	0.00	1.36	30.29	1.36	46.70	36.70	-16.41	
81.30	34.43	0.00	0.57	25.00	0.57	46.90	36.90	-21.90	
90.08	22.78	0.00	0.33	23.11	0.33	47.23	37.23	-24.12	
100.88	27.40	0.00	0.74	28.14	0.74	47.63	37.63	-19.49	

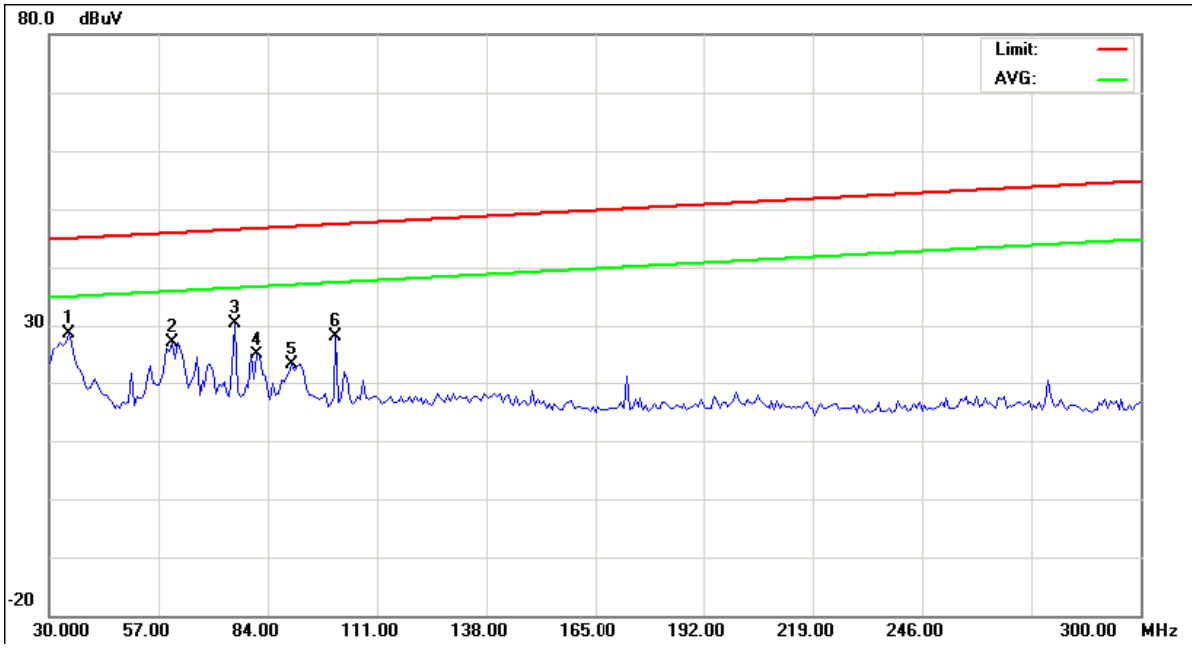
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	23℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	LINE OUT CABLE		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
34.73	24.62	0.00	3.13	27.75	3.13	45.18	35.18	-17.43	
60.38	27.88	0.00	0.93	28.81	0.93	46.13	36.13	-17.32	
75.90	29.86	0.00	1.36	31.22	1.36	46.70	36.70	-15.48	
81.98	26.89	0.00	0.54	27.43	0.54	46.93	36.93	-19.50	
92.10	26.19	0.00	0.34	26.53	0.34	47.30	37.30	-20.77	
100.88	29.88	0.00	0.74	30.62	0.74	47.63	37.63	-17.01	

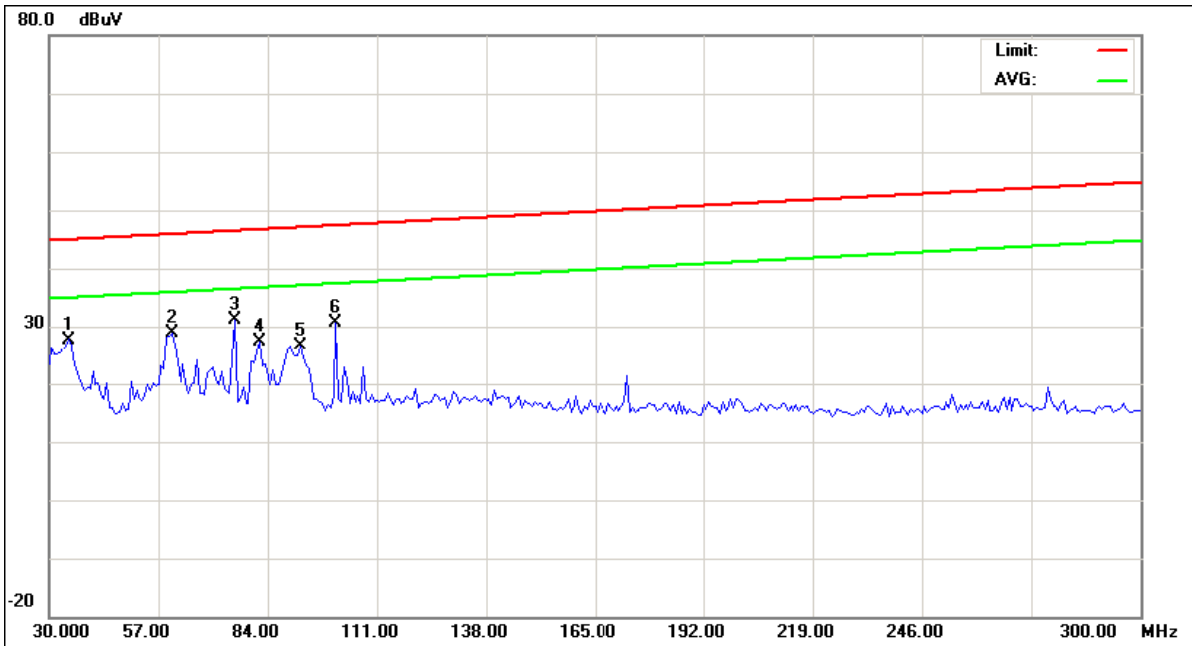
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	26℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	SPEAKER OUT 1 CABLE		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
35.40	24.34	0.00	3.27	27.61	3.27	45.20	35.20	-17.59	
59.70	26.56	0.00	1.09	27.65	1.09	46.10	36.10	-18.45	
75.90	32.62	0.00	1.36	33.98	1.36	46.70	36.70	-12.72	
82.65	26.28	0.00	0.50	26.78	0.50	46.95	36.95	-20.17	
92.10	24.65	0.00	0.34	24.99	0.34	47.30	37.30	-22.31	
100.88	29.18	0.00	0.74	29.92	0.74	47.63	37.63	-17.71	

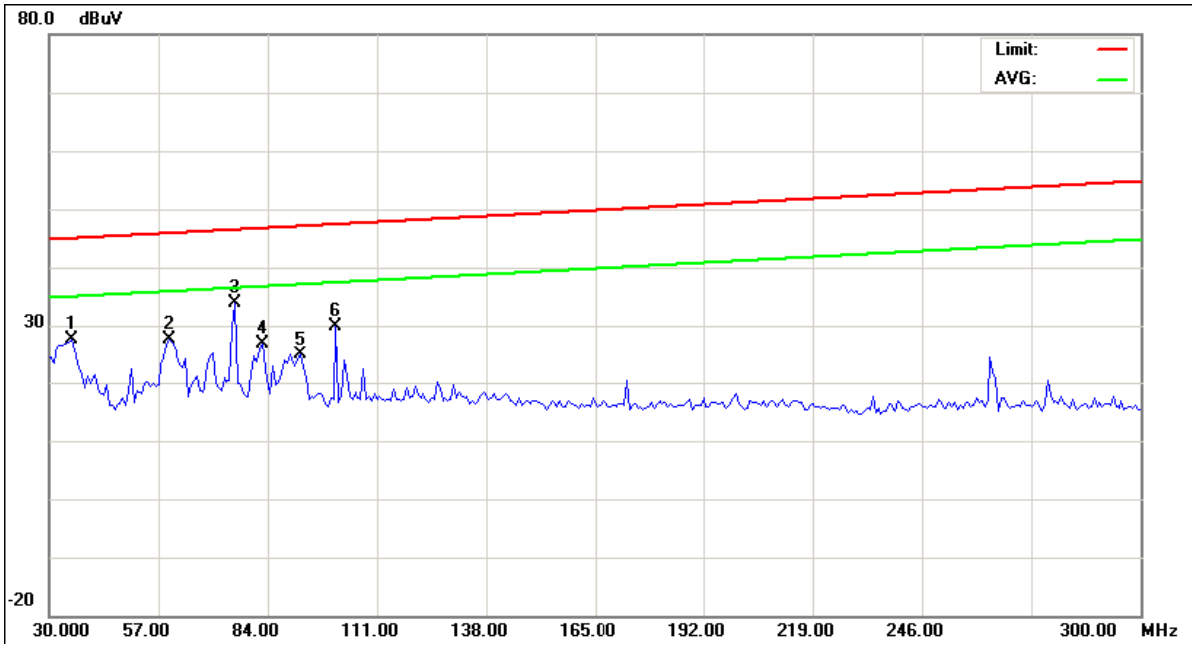
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	26℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	SPEAKER OUT 2 CABLE		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
35.40	26.55	0.00	3.27	29.82	3.27	45.20	35.20	-15.38	
59.70	27.34	0.00	1.09	28.43	1.09	46.10	36.10	-17.67	
75.90	33.50	23.90	1.36	34.86	25.26	46.70	36.70	-11.44	(AV)
81.98	26.66	0.00	0.54	27.20	0.54	46.93	36.93	-19.73	
92.10	26.05	0.00	0.34	26.39	0.34	47.30	37.30	-20.91	
100.88	28.44	0.00	0.74	29.18	0.74	47.63	37.63	-18.45	

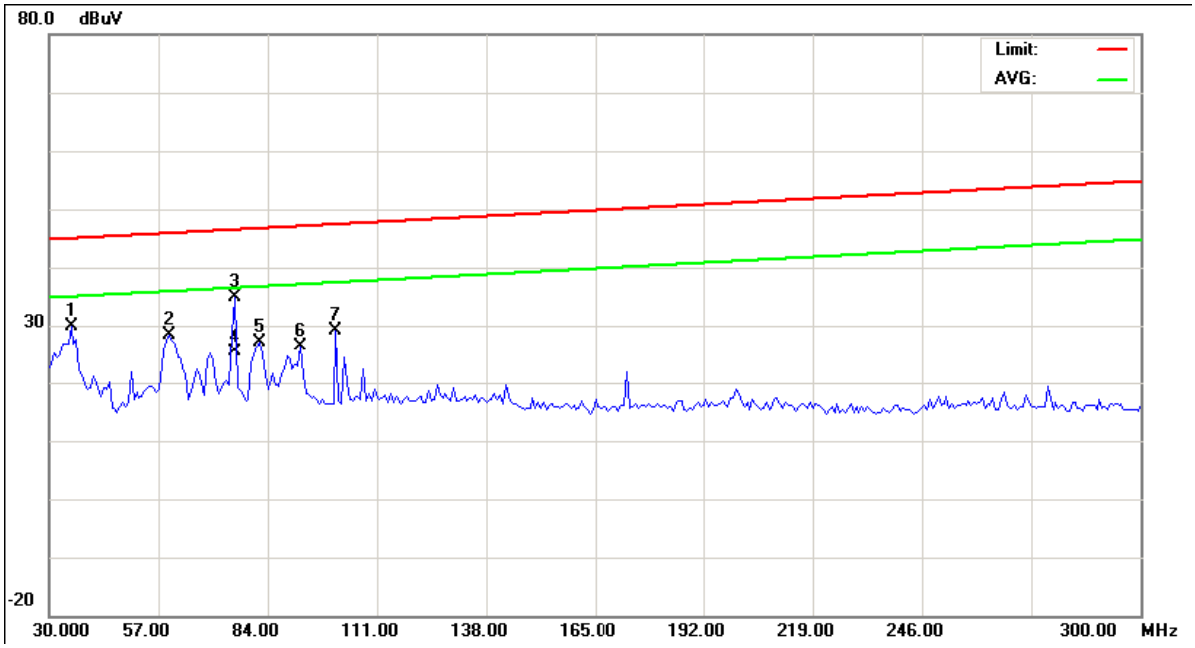
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	26℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	REVERB CABLE		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
32.70	26.00	0.00	2.34	28.34	2.34	45.10	35.10	-16.76	
62.40	29.43	0.00	0.29	29.72	0.29	46.20	36.20	-16.48	
70.50	25.22	0.00	1.57	26.79	1.57	46.50	36.50	-19.71	
75.90	32.43	0.00	1.36	33.79	1.36	46.70	36.70	-12.91	
81.30	24.93	0.00	0.57	25.50	0.57	46.90	36.90	-21.40	
100.88	28.12	0.00	0.74	28.86	0.74	47.63	37.63	-18.77	

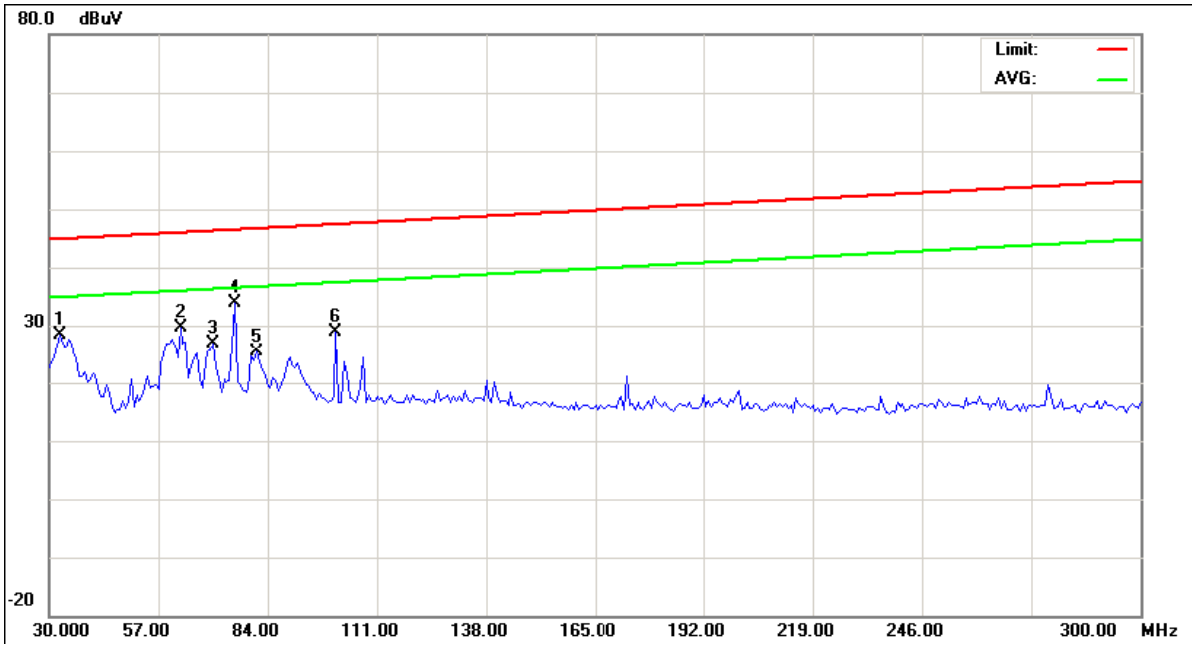
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	26℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	CHANNEL CABLE		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
34.73	26.85	0.00	3.13	29.98	3.13	45.18	35.18	-15.20	
40.80	27.39	0.00	3.02	30.41	3.02	45.40	35.40	-14.99	
59.70	22.88	0.00	1.09	23.97	1.09	46.10	36.10	-22.13	
75.90	27.68	0.00	1.36	29.04	1.36	46.70	36.70	-17.66	
90.08	24.24	0.00	0.33	24.57	0.33	47.23	37.23	-22.66	
100.88	31.48	0.00	0.74	32.22	0.74	47.63	37.63	-15.41	

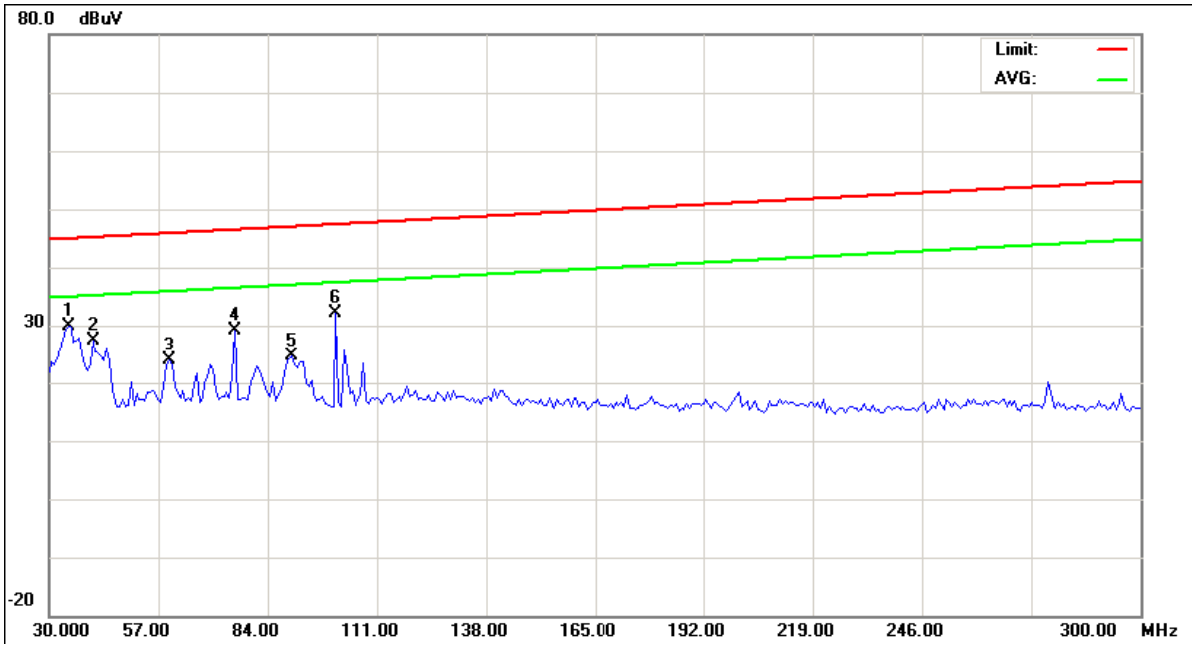
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	26℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	LOW LEVEL IN CABLE		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
35.40	28.46	0.00	3.27	31.73	3.27	45.20	35.20	-13.47	
60.38	22.85	0.00	0.93	23.78	0.93	46.13	36.13	-22.35	
75.90	28.89	0.00	1.36	30.25	1.36	46.70	36.70	-16.45	
81.98	23.79	0.00	0.54	24.33	0.54	46.93	36.93	-22.60	
92.10	24.81	0.00	0.34	25.15	0.34	47.30	37.30	-22.15	
100.88	27.34	0.00	0.74	28.08	0.74	47.63	37.63	-19.55	

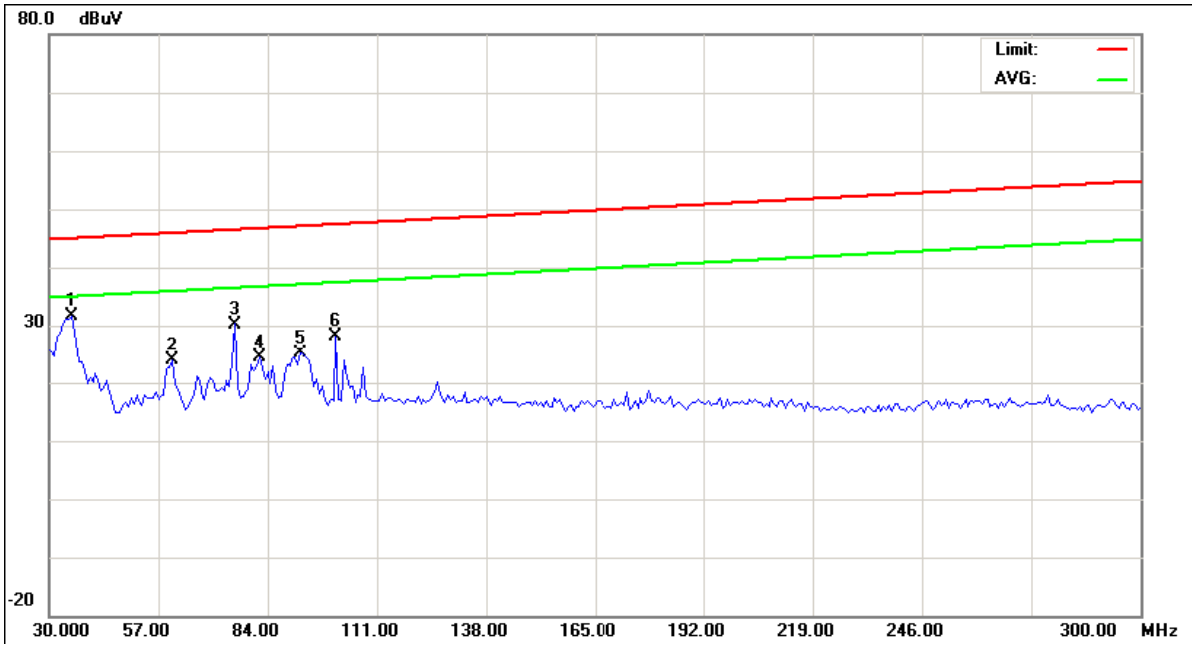
Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。



EUT:	Guitar Amplifier	Model Name :	D100
Temperature:	26℃	Relative Humidity:	50%
Pressure:	1004 hPa	Test Power :	AC 240V/50Hz
Test Mode :	HIGH LEVEL IN CABLE		

Freq.	Read(RA)(dBuV)		Factor(CF)	Measured(dBuV)		Limits(dBuV)		Safe Margins	
(MHz)	QP	AV	(dB)	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dBuV)	Note
32.70	27.32	0.00	2.34	29.66	2.34	45.10	35.10	-15.44	
35.40	26.70	0.00	3.27	29.97	3.27	45.20	35.20	-15.23	
75.90	28.82	0.00	1.36	30.18	1.36	46.70	36.70	-16.52	
92.10	24.80	0.00	0.34	25.14	0.34	47.30	37.30	-22.16	
100.88	27.39	0.00	0.74	28.13	0.74	47.63	37.63	-19.50	
107.63	22.04	0.00	1.32	23.36	1.32	47.88	37.88	-24.52	

Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz；SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz。

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 300MHz。

(4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。